AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended): A gas turbine plant comprising:

a high-temperature gas-cooled reactor which warms a coolant by thermal energy being obtained by nuclear fission of clad fission products in coated-particle fuels;

at least a first gas turbine, a second gas turbine and a third gas turbine;

a first speed indicator for measuring a rotating speed of the first gas turbine;

a second speed indicator for measuring a rotating speed of the second gas turbine;

the first gas turbine that is rotated by the coolant being warmed by the high-temperature gas-cooled reactor and shares a first shaft with a first compressor compressing the coolant;

the second gas turbine that is rotated by the coolant being discharged from the first gas turbine and shares a second shaft with a second compressor compressing the coolant;

the third gas turbine that is rotated by the coolant being discharged from the second gas turbine and shares a third shaft with a generator performing electrical power generation operation; and

a bypass control section for controlling a lift of a bypass valve provided to a bypass pathway that allows the coolant to bypass the third gas turbine, the bypass control section controlling the lift of the bypass valve based on the rotating speed of the first gas turbine measured by the first speed indicator and the rotating speed of the second gas turbine measured by the second speed indicator, wherein

the bypass control section compares the rotating speeds ~~speed~~ of the first gas turbine and the second gas turbine ~~measured by the first speed indicator~~ with [[a]] predetermined rotating speed values respectively, ~~value of the first gas turbine~~ and when the rotating speeds ~~speed~~ of the first gas turbine and the second gas turbine are ~~measured by the first speed indicator is~~ below the predetermined rotating speed values respectively, the bypass control section ~~value of the first gas turbine,~~ controls the bypass valve to be opened;

~~the bypass control section compares the rotating speed of the second gas turbine measured by the second speed indicator with a predetermined rotating speed value of the second gas turbine and when the rotating speed of the second gas turbine measured by the second speed indicator is below the predetermined rotating speed value of the second gas turbine, controls the bypass valve to be opened and~~

during a rated load operation, a flow volume of the coolant flowing through the bypass pathway is controlled by controlling ~~said~~ the bypass valve so as to make the rotating speeds of the first gas turbine and ~~speed of~~ the second gas turbine fall within a range of a predetermined rotating speed; and

the predetermined range of rotating speed does not include a range of rotating speed at which rotating blades provided to the first and second compressors and to the first and second gas turbines resonate.

2. (Withdrawn): A gas turbine plant as described in Claim 1:

wherein, the bypass pathway is provided with an orifice to control a flow volume of the coolant flowing through the bypass pathway.

3. (Previously Presented): A gas turbine plant as in claim 1:

wherein, the bypass pathway is provided with bypass valves to control the flow volume of the coolant flowing through the bypass pathway.

4. (Canceled).

5. (Withdrawn): A gas turbine plant as described in Claim 2:

wherein, "n" ("n" is an integer number being more than one (1)) units of compressors are provided and at a same time, the first gas turbines being connected to "n" shafts and sharing same shafts with the "n" units of compressors, respectively, are provided.

6. (Canceled).

7. (Previously Presented) A gas turbine plant as in claim 1:

wherein, the bypass pathway that allows the coolant to bypass the second gas turbine is provided from upstream of the second gas turbine to downstream of the second gas turbine.

8-11. (Canceled).